

Title (en)

METHOD OF CONTINUOUS CASTING AND ROLLING ALUMINIUM ALLOY AND ALUMINUM ALLOY INTERMEDIATE PRODUCT

Title (de)

VERFAHREN ZUM KONTINUIERLICHEN GIESSEN UND WALZEN ALUMINIUM-LEGIERUNG UND ALUMINIUM-LEGIERUNG ZWISCHENPRODUKT

Title (fr)

PROCEDE DE COULEE ET DE LAMINAGE EN CONTINU D'UN ALLIAGE D'ALUMINIUM ET PRODUIT INTERMEDIAIRE EN ALLIAGE D'ALUMINIUM

Publication

EP 3892398 A1 20211013 (EN)

Application

EP 21170636 A 20170927

Priority

- US 201662413764 P 20161027
- US 201662413591 P 20161027
- US 201662413740 P 20161027
- US 201762505944 P 20170514
- US 201762529028 P 20170706
- EP 17781312 A 20170927
- US 2017053723 W 20170927

Abstract (en)

A continuous casting and rolling line for casting, rolling, and otherwise preparing metal strip can produce distributable metal strip without requiring cold rolling or the use of a solution heat treatment line. A metal strip can be continuously cast from a continuous casting device and coiled into a metal coil, optionally after being subjected to post-casting quenching. This intermediate coil can be stored until ready for hot rolling. The as-cast metal strip can undergo reheating prior to hot rolling, either during coil storage or immediately prior to hot rolling. The heated metal strip can be cooled to a rolling temperature and hot rolled through one or more roll stands. The rolled metal strip can optionally be reheated and quenched prior to coiling for delivery. This final coiled metal strip can be of the desired gauge and have the desired physical characteristics for distribution to a manufacturing facility.

IPC 8 full level

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CPC (source: EP KR US)

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Citation (applicant)

- US 6755236 B1 20040629 - SIVILOTTI OLIVO G [CA], et al
- US 201662400426 P 20160927

Citation (search report)

- [I] WO 0144532 A1 20010621 - ALCAN INT LTD [CA], et al
- [I] GB 2027743 A 19800227 - ALUSUISSE
- [I] US 4238248 A 19801209 - BOLLIGER MARTIN [CH], et al

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US 201715717361 A 20170927; AU 2017350368 A 20170927; AU 2017350512 A 20170927; BR 112019007596 A 20170927; BR 112019008427 A 20170927; CA 3041474 A 20170927; CA 3041998 A 20170927; CA 3210413 A 20170927; CN 201780066612 A 20170927; CN 201780066754 A 20170927; DE 202017007438 U 20170927; DE 202017007472 U 20170927; EP 17781312 A 20170927; EP 17791201 A 20170927; EP 21170636 A 20170927; EP 23188715 A 20170927; ES 17781312 T 20170927; ES 17791201 T 20170927; ES 21170636 T 20170927; JP 2019522748 A 20170927; JP 2019542346 A 20170927; JP 2020136203 A 20200812; JP 2021134099 A 20210819; JP 2023040042 A 20230314; KR 20197014694 A 20170927; KR 20197015112 A 20170927; KR 20217005513 A 20170927; KR 20227013242 A 20170927; MX 2019004840 A 20170927; MX 2019004907 A 20170927; RU 2019115595 A 20170927; US 2017053720 W 20170927; US 2017053723 W 20170927; US 201715716581 A 20170927; US 202017085466 A 20201030; US 202318157932 A 20230123